

# Customer Funding Progress Report

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US Army Corps of Engineers  
**BUILDING STRONG®**



# Section 212 Program Update

- Program and Work Item Overview
- Path Forward



# Program and Work Item Overview

- Master Plan revision has been adopted and posted to the SharePoint Site
- LRN/HDC Program Interaction
  - Next meeting is October 28
- Legacy MOA Ballot #15 in approval process
- Revising recommendations for Legacy MOA funds use
- Preparing ballot to close L-T MOA work items
- Center Hill Major Hydropower Rehab is underway
- Barkley Hydropower Rehabilitation Analysis Report
- Old Hickory Hydropower Rehabilitation Analysis Report



# Program and Work Item Overview

## Revenue to Date

Reporting Period	Cumulative Revenue	Section 212 Program Revenue				
Cumulative thru August 31, 2014	\$153,123,573	Revenue Authorization				
Legacy Total (2004-2009)	\$45,000,000	L-T Sub-Agreement #1	L-T Sub-Agreement #2	L-T Sub-Agreement #3	L-T Sub-Agreement #4	L-T Sub-Agreement #5
Cumulative L-T MOA	\$108,123,573	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$8,123,573



# Program and Work Item Overview

- Center Hill Major Hydropower Rehab

- Notice to Proceed - September 2014
- Pre-construction submittals
- Turbine Model Witness Test
- Construction complete – July 2018
- Project complete – February 2019



- Barkley Unit 1 Rewind

- De-scoping MOD completed
- Contract is complete and being closed

- Barkley Turbine Governors – Unit 3 Kaplan Head

- Unit 3 returned to service but suffered bearing failure
- Metallurgical testing is planned



# Program and Work Item Overview

- Barkley Hydropower Rehabilitation Analysis
  - Study confirmed the findings of the MRER – recommends sizing the rehabilitated units at 41.85 MW, with associated equipment work
- Barkley Powerhouse Crane
  - 100% Plans & Specs - February 2015
- Barkley MV Cables and Busses
  - Planning Study – October 2014
  - 100% Plans & Specs – December 2015
- Center Hill Penstock and Water Passages
  - Acquisition after major rehab completed





# Program and Work Item Overview

- Wolf Creek Evacuation/Water Depression Controls
  - Completion – September 2014
- Wolf Creek Thrust Bearing Pressure Lift System – Units 1, 2, 3 & 5
  - HDC is reviewing final plans and specifications
- Wolf Creek Penstock Water Passages PED
  - Begin acquisition phase – December 2014



# Program and Work Item Overview

- System-Wide Turbine Governors
  - Evaluation of Woodward governors in progress, planning for limited work to gain additional 15 years of service life
- System-Wide Station Service Power Systems
  - Final report – October 2014
- CHE & COR Intake Draft Tube Aux. Equipment
  - HDC Phase I Equipment Inspection starting





# Program and Work Item Overview

- DC Systems Planning

- Final report and recommendations – January 2015

- Excitation Equipment Planning

- Final report and recommendations – September 2014

- Barkley Excitation Engineering & Design initiation – September 2014



# Program and Work Item Overview

- SYS05.01 System-Wide Main Power Transformers Planning
  - Closed by Ballot #15
- SYS29.01 System-Wide Switchyard Planning
  - Closed by Ballot #15
- SYS03 Sys-Wide Generator Circuit Breaker Replacement
  - Closed by Ballot #15
- WOL33.2 – Wolf Creek Unwatering Pumps
  - Project to be closed.
- LAU02E Laurel Unit 1 T- G Emergency Assessment
  - Additional testing recommended by HDC



# Path Forward

- Monthly PRC virtual meetings
- Execute the Short Term MOA with TVPPA and TVA
- Ballots to use Legacy MOA funds, close Legacy MOA projects, and to close L-T MOA project phases
- Old Hickory and Wolf Creek Hydropower Rehabilitation Analysis Reports (HRAR)
- Old Hickory Turbine Generator Rehabilitation
  - Moving forward with Unit 4 repair planning
- Program District workload with HDC

